RESTRICTED CIRCULATION

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# Agricultural Memorandum No 716a

## Average return to capacity dates, 1941-70

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The formulae for NORTH and WALES areas have been recalculated as follows:-

NORTH

$R_1$ = annual average rainfall (mm) up to maximum of 800
$R_2$ = excess over 800 mm

| | | |
|---|---|---|
| EQ | $1.08P - 0.02R_1 - 0.0078R_2 - 0.98$ | (0.97) |
| M | $0.76P - 0.0255R_1 - 0.0072R_2 + 11.46$ | (0.98) |
| LQ | $0.82P - 0.023R_1 - 0.0081R_2 + 12.46$ | (0.95) |

WALES

$R_1$ = annual average rainfall (mm) up to maximum of 1100
$R_2$ = excess over 1100 mm

| | | |
|---|---|---|
| EQ | $0.09P - 0.0105R_1 - 0.012R_2 + 10$ | (0.92) |
| M | $0.53P - 0.01R_1 - 0.013R_2 + 5.5$ | (0.96) |
| LQ | $0.06P - 0.0125R_1 - 0.013R_2 + 17.55$ | (0.94) |

These give much better consistency in the northern area, but little effective difference in Wales, and it is possible there that a split formula would be more reliable for extrapolation into high rainfall areas, but in any case the return dates are almost indefinable in such regions.

Any comments or suggestions on this paper should be referred to the author.

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